

Women still excluded from meaningful sport and exercise research, argue experts

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Women are being excluded from meaningful sport and exercise research because the complexities of the menstrual cycle are considered "major barriers" for clinical trials, argue experts in an editorial published online in the *British Journal of Sports Medicine*.

As a result, women continue to be significantly underrepresented in relevant studies, despite the narrowing [gender gap](#) in [sports participation](#), argue the authors.

Historically, women were often left out of research because of fears that drug trials in particular might harm unborn babies. Furthermore, researchers eager to obtain "meaningful results with fewer participants and less funding" didn't want to risk including women because they were regarded as "more physiologically variable" than men.

"Since men were viewed as adequate proxies for women, the years of exclusion of female participants from research were considered inconsequential," write the authors.

But it is now known that women respond very differently from men to drugs, and that they are twice as likely to react badly to them, they say. This is important for pharmaceutical companies too, because 80% of the drugs withdrawn from market are due to the "unacceptable side effects" women who took them experienced, they point out.

When researchers do include women, they tend to make sure they are in

the early follicular phase of their menstrual cycle, when levels of oestrogen and progesterone are at their lowest.

However, this just means that the true impact of these hormones on exercise performance isn't really known, "thus perpetuating the significant gap in understanding," argue the authors.

The research that has been carried out suggests that a significant proportion of [women](#) athletes believe their menstrual cycle affects their training and worsens performance.

"There is a clear need to gain better understanding of the female physiology and to define the effects of the cyclical variations in hormones, both positive and negative, on athletic performance," the authors insist.

"Also, a greater understanding of the [menstrual cycle](#) is needed to address the reported negative impacts on exercise training in order to encourage participation and avoid further disparity in gender representation," they add.

More information: Sport, exercise and menstrual cycle: where is the research? bjsm.bmj.com/lookup/doi/10.1136/bjsports-2016-096279

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